PME271M/E

- EMI suppressor, classes X1 and X2, metallized paper
- 0.001 0.6 µF, 275/300 VAC, +110 °C
- The highest possible safety regarding active and passive flammability.
- Self-extinguishing UL 94V-0 encapsulation material.
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- Good resistance to ionisation due to impregnated dielectric.
- High dU/dt capability.
- Small dimensions.
- Safety approvals for worldwide use.
- The capacitors meet the most stringent IEC humidity class, 56 days.

• The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

TYPICAL APPLICATIONS

The capacitors are intended for use as interference suppressors in X1 or X2 (across-the-line) applications.

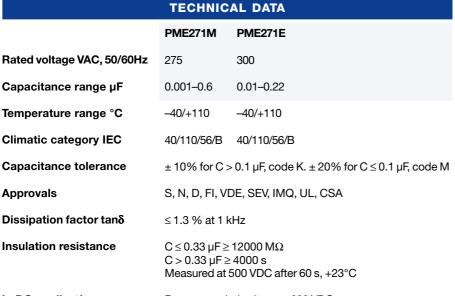
CONSTRUCTION

Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

	L	B
=		
-	p ± 0.5	Ød
<u> </u>		

d = 0.6 for p = 10.20.8 for p = 15.2, 20.3, 22.51.0 for p = 25.4

standard 30 +5/-0 mm (code R30) short leads, tolerance +0/-1 mm option (standard 6 mm, code R06) Other lead lengths on request.



In DC applications Recommended voltage: ≤ 630 VDC

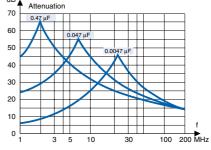
Resonance frequency Tabulated self-resonance frequencies for refer to 5 mm

lead lengths.

Test voltage between terminals

The 100% screening factory test is carried out at 2150 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics

are checked after the test.



Suppression versus frequency. Typical values.

ENVI	BONN	ЛЕNTAL	TEST	DATA

Vibration IEC 60068-2-6, Test Fc No visible damage, No open or short circuit 3 directions at 2 hour each,

10 - 500 Hz at 0.75 mm or 98 m/s²

No visible damage, No open or short circuit

IEC 60068-2-29, Test Eb 4000 bumps at 390 m/s² **Bump**

IEC 60068-2-20, Test Ta Solder globule method **Solderability** Wetting time for $d \le 0.8 < 1 \text{ s}$ for d > 0.8 < 1.5 s

Active flammability FN 132400

Passive flammability IEC 60384-14 (1993), EN 132400

Humidity IEC 60068-2-3, Test Ca +40°C and 90 - 95% R.H. 56 days

							AR	TICLE 1	ABLE			
Capaci-	May	dimen	eione		Quar	itity per	packaç reel	je		Max	Approvals	
tance	in m		310113		R30	R06	taped	Weight	\mathbf{f}_{o}			Article code
μF	В	Н	L	р	pcs	pcs	pcs	g	MHz	V/µs	S N N N N N N N N N N N N N N N N N N N	
						CLASS	3 X2 2	75 VAC	+110 °C	PME27	71 M	
0.0010	3.9	7.5	13.5	10.2	1000	2000	700	0.7	53	1200	\ \ \ \ \ \ \ \ \ \ \ \ \	PME271M410MR30
0.0015	3.9	7.5		10.2	1000	2000	700	0.7	44	1200	1 1 1 1 1 1 1 1	PME271M415MR30
0.0022	3.9	7.5		10.2	1000	2000	700	0.7	37	1200	1 1 1 1 1 1 1 1	PME271M422MR30
0.0033	4.1	8.2		10.2	1000	2000	600	0.9	30	1200	1 1 1 1 1 1 1	PME271M433MR30
0.0047	5.1	10.5		10.2	800	1600	600	1.2	24		1 1 1 1 1 1 1 1	PME271M447MR30
0.0068	5.2	10.5	18.5	15.2	500	1000	600	1.7	19	1200	V V V V V V V V	PME271M468MR30
0.010	5.2	10.5	18.5	15.2	500	1000	600	1.7	16	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M510MR30
0.015	5.2	10.5	18.5	15.2	500	1000	600	1.7	13	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M515MR30
0.022	6.0	12.5	18.5	15.2	400	800	400	3.0	10	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M522MR30
0.033	6.0	12.5	18.5	15.2	400	800	400	3.0	8.4	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M533MR30
0.047	6.0	12.5	18.5	15.2	400	800	400	3.0	7.0	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M547MR30
0.068	7.8	13.5	18.5	15.2	400	800	400	3.3	5.6	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M568MR30
0.10	8.5	14.3	18.5	15.2	300	500	350	3.8	4.3	1200	1 1 1 1 1 1 1 1 1 1	PME271MB6100MR30
0.10	7.6	14.0	24.0	20.3	250	1500	250	4.0	4.1	600	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M610MR30
0.15	9.0	15.0	24.0	20.3	200	1200	250	5.0	3.4	600	\forall \forall \forall \forall \forall \forall \forall	PME271M615KR30
0.22	11.3	16.5	24.0	20.3	150	1000	180	7.0	2.7	600	1 1 1 1 1 1 1 1 1	PME271M622KR30
0.10	8.0	17.0		22.5	200	1200	250	5.5	3.9	600	V V V V V V V V	PME271MD6100MR30
0.15	8.0	17.0		22.5	200	1200	250	5.5	3.3	600	11111	PME271MD6150KR30
	10.0	19.0		22.5	150	1000	200	7.5	2.6	600	111111	PME271MD6220KR30
	12.0	22.0		22.5	100	800		10.0	2.3	400	111111	PME271MD6270KR30
0.33	12.0	22.0	27.0	22.5	100	800		10.0	2.1	400	1 1 1 1 1 1 1 1 1	PME271MD6330KR30
0.27	10.5	17.3	30.5	25.4	100	1000		8.5	2.4	400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M627KR30
0.33	12.1	19.0	30.5	25.4	100	800		10.0	2.1	400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M633KR30
0.47	15.3	22.0	30.5	25.4	75	600		15.0	1.8	400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271M647KR30
0.60	15.3	22.0	30.5	25.4	75	600		15.0	1.6	400	1 1 1 1 1 1 1 1 1	PME271M660KR30
						CLASS	X1 3	00 VAC	+110 °C	PME27	′1 E	
0.010	5.2	10.5		15.2	500	1000	600	1.7	16		1 1 1 1 1 1 1 1 1	PME271E510MR30
0.015	5.2	10.5		15.2	500	1000	600	1.7	13		1 1 1 1 1 1 1 1	PME271E515MR30
0.022	7.3	13.0	19.0	15.2	400	800	400	3.0	9.8	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271E522MR30
0.033	7.3	13.0	19.0	15.2	400	800	400	3.0	7.0	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271E533MR30
0.047	8.5	14.3	18.5	15.2	300	500	350	3.8	6.4	1200	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME271E547MR30
0.068	7.6	14.0	24.0	20.3	250	1500	250	4.5	5.2	600	11111	PME271E568MR30
	11.3	16.5		20.3	150	1000	180	7.0	4.1		1 1 1 1 1 1 1 1	PME271E610MR30
0.068	8.0	17.0	27.0	22.5	200	1200	250	5.5	4.7	600	1 1 1 1 1 1 1 1	PME271ED5680MR30
0.10	8.0	17.0		22.5	200	1200	250	5.5	4.1		1 1 1 1 1 1 1 1	PME271ED6100MR30
	10.0	19.0		22.5	150	1000	200	5.5	3.2		11111	PME271ED6150KR30
	12.0	22.0		22.5	100	800		5.5	2.5			PME271ED6220KR30
0.15	10.6	16.1	30.5	25.4	150	1000		8.6	3.3	400	1 1 1 1 1 1 1 1 1	PME271E615KR30
	12.1	19.0	30.5		100	800		10.0	2.6		11111	PME271E622KR30



APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
S	EN 132400	9834227-01 (X2), 9821105-01 (X1),
N	EN 132400	P98102279 (X2), P98101874 (X1)
D	EN 132400	308048 (X2), 307886 (X1),
FI	EN 132400	203301 (X2), 202782 (X1),
VDE	EN 132400	118230 (X2), 117365 (X1),
SEV	EN 132400	99.7 70053.01 (X2), 99.7 70083.01(X1)
IMQ	EN 132400	V 4699 (X2), V 4698 (X1),
UL	UL 1283 (U _R = 250 VAC) UL 1414 (U _R = 250 VAC)	E 100117 (X2, X1) E 73869 (X2)
CSA	C 22.2 No. 1 (U _R = 250 VAC)	53108 (X2)

ORDERING INFORMATION

The article code for the standard part is given in the article table. For other options, see page 21.

MARKING

- RIFA
- RIFA article code
- · Rated capacitance
- Rated voltage
- X2 or X1
- SH, for self-healing
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)

PACKING

Capacitors in standard design (lead length 30 mm) and with L < 24 mm and lead length 5 or 6 mm are packed bulk in a box with dimensions $245 \times 145 \times 80$ mm. Quantity/package as per article table.

Capacitors with $L \ge 24$ mm and lead length 5 or 6 mm are packed on trays piled in a box with dimensions $300 \times 260 \times 195$ mm. Quantity/package as per article table.

Reels with taped capacitors are packed 10 in a box with dimension 370 x 370 x 560 mm. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

